

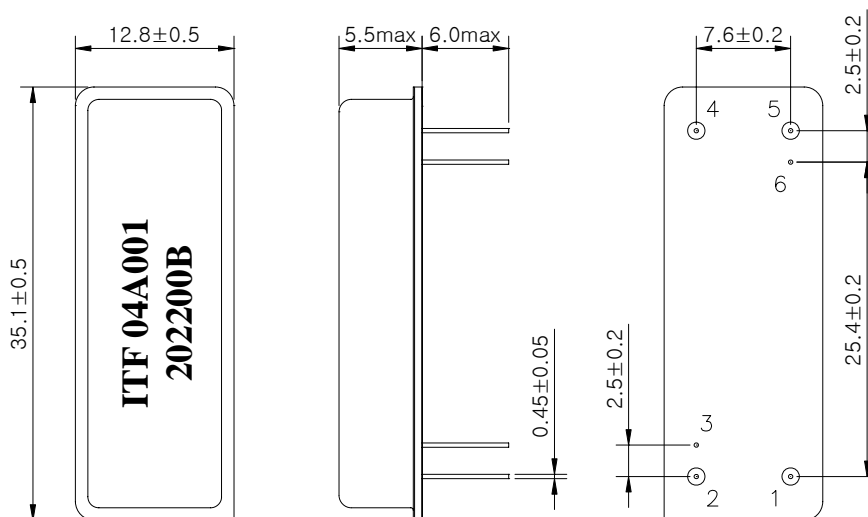
SAW Bandpass Filter 202200B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D3512


Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Pin Configuration	
1	Input
5	Output
2, 4	Ground
3, 6	Case ground

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202200B	
		Rev. Date	2004-06-07	
		Rev.	NM3012-CS02	1/5

SAW Bandpass Filter 202200B



3. Specifications

Fo = 70.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	70.0	-
Insertion Loss	dB	-	23.0	25.0
1dB Bandwidth	MHz	14.5	15.1	-
3dB Bandwidth	MHz	15.1	15.28	15.3
40dB Bandwidth	MHz	-	16.2	17.0
Amplitude Ripple (Fo +/- 7.25 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 7.25 MHz)	Nsec	-	50	150
Absolute Delay	Usec	-	3.16	-
Relative Attenuation				
at 30.00 to 61.76 MHz	dB	45	50	-
at 61.76 to 61.96 MHz	dB	26	30	-
at 78.04 to 78.24 MHz	dB	26	30	-
at 78.24 to 100.0 MHz	dB	45	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

Notes :

- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

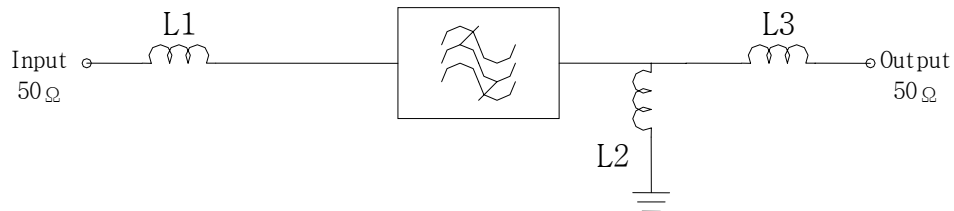
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		Rev. Date	2004-06-07	
		Rev.	NM3012-CS02	2/5

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4. Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



$$L1 = L3 = 68 \text{ nH,}$$

$$L2 = 330 \text{ nH}$$

5. Marking Configuration


ITF¹⁾04A001²⁾

202200B³⁾

1) Manufacturer name

2) Lot Number

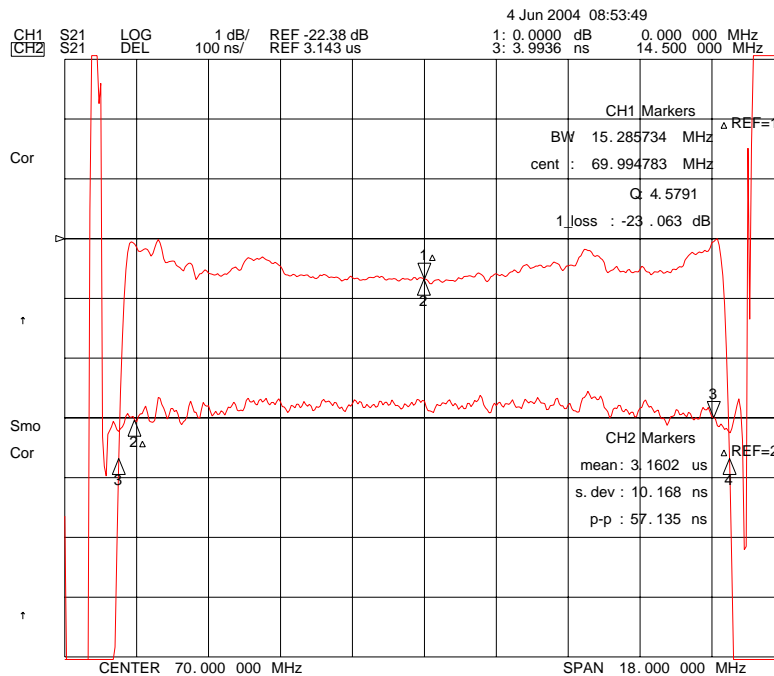
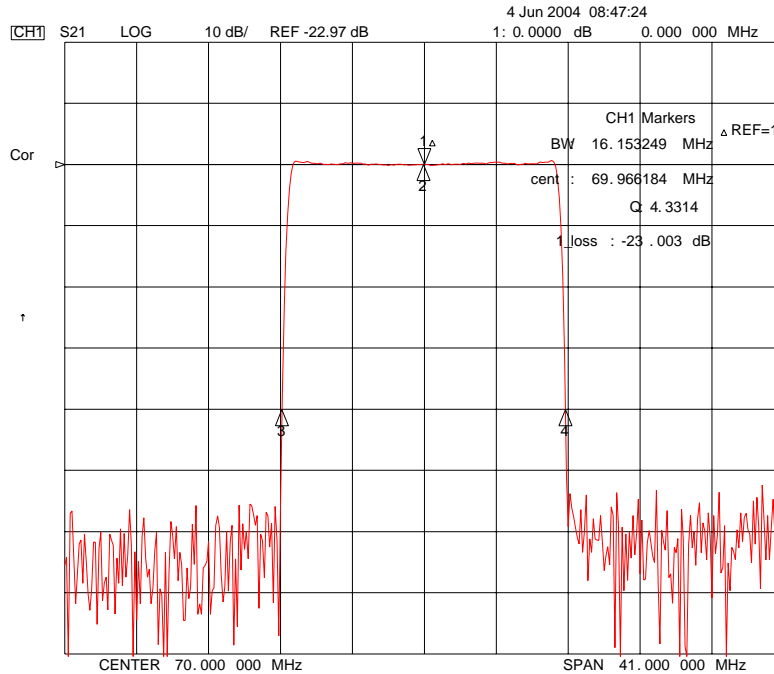
3) Part Number

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		Rev.	NM3012-CS02	3/5

SAW Bandpass Filter 202200B



6. Typical Performance (at +25°C)



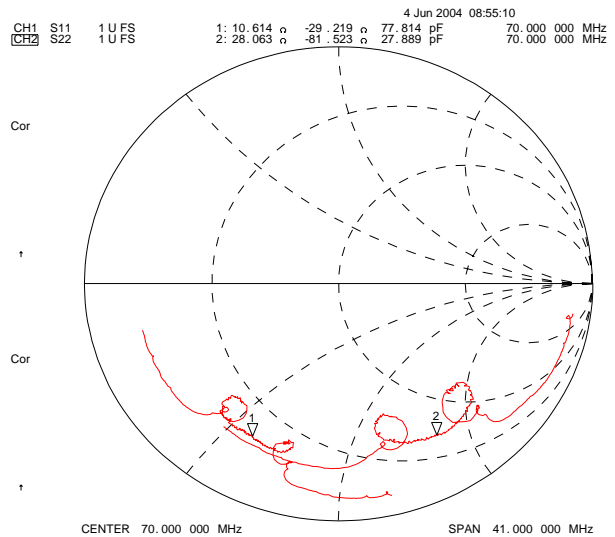
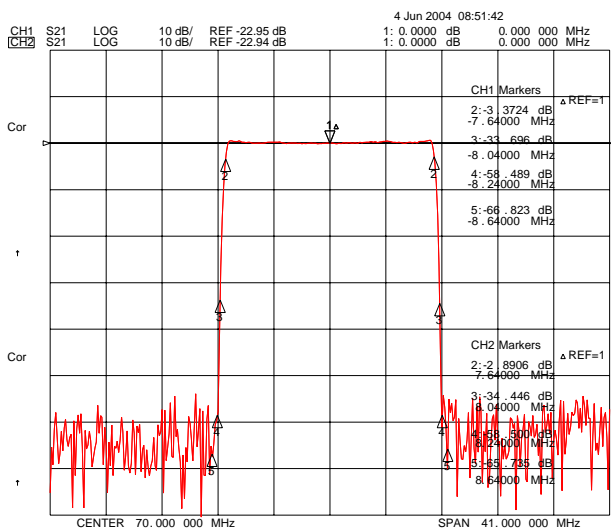
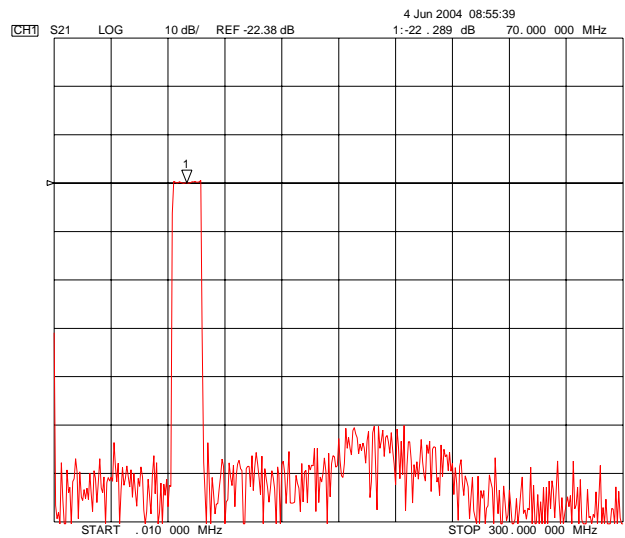
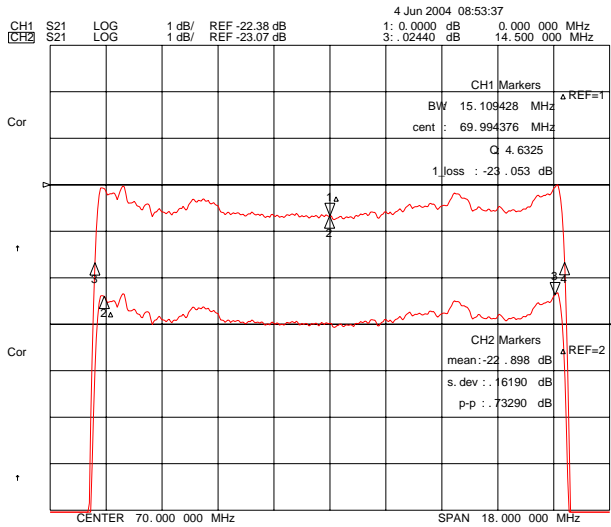
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Rev. NM3012-CS02 4/5

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Rev. NM3012-CS02 5/5